

phage lambda-gt11 as expression vector. The gene bank was screened using a labeled DNA probe, and the enhancer sequence was isolated. (36pp)

DESCRIPTORS: human alpha-fetoprotein gene enhancer DNA sequence, pot. appl. vector construction for improved gene expression in animal cell culture mammal protein cloning gene transmission human hepatoma tumor

SECTION: Microbiology-Genetics; Cell Culture-Animal Cell Culture (A1,J1)
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102992 DBA Accession No.: 90-05683 PATENT

Human recombinant alpha-fetoprotein domain-I production and gene cloning in vector plasmid pRG-12 - gene expression in Escherichia coli; protein sequence

PATENT ASSIGNEE: Kwansai-Shingijutsu-Res.Inst. 1990

PATENT NUMBER: JP 2005866 PATENT DATE: 900110 WPI ACCESSION NO.: 90-053912 (9003)

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LANGUAGE: Japanese

ABSTRACT: A method for preparing recombinant alpha-fetoprotein domain-I comprises cloning the gene in new vector plasmid pRG-12 and expressing it in a transformed host, preferably Escherichia coli. The domain-I base sequence corresponding to Ile-(12)-Leu-Asp is ATCTAGAC from the 5' terminal, the base sequence corresponding to Glu-(21)-Ile-Ser is GAGATATCT from the 5'-terminus, the base sequence corresponding to Asp-(50)-Ala-Leu is GACGCGTTG from the 5'-terminus, the base sequence corresponding to Glu-(84)-Ile-Leu is GAGATCTTG from the 5'-terminus, the sequence corresponding to Gln-(121)-Val-Pro is CAGGTACCA from the 5'-terminus, the base sequence corresponding to Glu-(130)-Ala-Tyr is GAAGCTTAC from the 5'-terminus, the base sequence corresponding to Ala-(148)-Arg is GCGCGC from the 5'-terminus and the base sequence corresponding to Glu-(193)-Leu is GAGCTC from the 5'-terminus. The recombinant protein, the production method, vector and hosts are claimed. The alpha-fetoprotein domain-I protein is recovered from the culture in high yield, purified and used as an immunosuppressive. Alpha-fetoprotein-specific antibodies can be prepared against the recombinant protein. (16pp)

DESCRIPTORS: human recombinant alpha-fetoprotein domain-I prep., gene cloning, protein sequence, vector plasmid pRG-12 expression in Escherichia coli mammal bacterium transformation immunosuppressive

SECTION: Pharmaceuticals-Other; Microbiology-Genetics (D5,A1)

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